

New Castle County Department of Public Works

Melvin A. Slawik Albert W. Madora County Executive

2701 Capitol Trail • Newark, Delawara 19711 • (302) 571-7800

December 22, 1975

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OFFICE OF DIRECTOR

DEC 24 1975

ENVIROUMENTAL CONTROL . MICHA N. C. Vasuki, Director Division of Environmental Control Edward Tatnall Building Dover, Delaware 19901

STATE OF DELAWARE

Dear Mr. Vasuki:

Attached is a copy of Interim Report No. 4 on the groundwater level monitoring program at the Tybouts Corner Landfill.

Very truly yours,

alfut W. Madora Albert W. Madora Director of Public Works

AWM:mac

Attachment

cc: Mr. Pasquale Canzano

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EDWARD H. RICHARDSON ASSOCIATES, INC.

CONSULTING ENGINEERS TO LANDSCAPE ARCHITECTS

PLANNERS

SURVEYORS

GENERAL OFFICES: RICHARD BEC & DOINZ . 320 BUTT SHAPEL STREET - NEWARK - DELAWARE MAIL ADDRESS: P.O. BOX 675 - NEWARK - DELAWARE 18711 - PHONE (302) 738-7351

COMM. No.: 1233-47-3

DECEMBER 17, 1975

NEW CASTLE COUNTY
DEPT, OF PUBLIC WORKS
2701 CAPITOL TRAIL
NEWARY DE 19711

ATTENTION: MR. DAVID CLARK

RE: Typolits Corner Landfill.
Interim Report No. 4 GROUNDWATER LEVEL MONITORING

GENTLEMEN:

IN ACCORDANCE WITH THE MONITORING PROGRAM, ESTABLISHED FOR THE TYBOUTS CORNER LANDFILL, WE HAVE MEASURED GROUNDWATER LEVELS ON DECEMBER 10, 1975. A SUMMARY OF THESE DATA ARE ENCLOSED,

Comparison of these data with similar data, from November 5, 1975, indicates that no significant change has occurred during the period. Nineteem (19) moritors show a decrease (average 0.3 ft.), six (6) moritors show an increase (0.3 ft.), seven (7) showing no change. In terms of site geographt, the central portion of the site shows a general decrease of approximately 0.2 feet, while the southeastern quarter of the site shows a general increase of approximately 0.3 feet.

AS NOTED IN OUR INTERIM REPORT OF NOVEMBER 10, 1975 AND IN OUR TELEPHONE CONVERSATION OF THIS MORNING, SURFACE, LEACHATE SEEP ACTIVITY IS STARTING TO INCREASE; PRINCIPALLY ALONG THE HORTHWESTERN BOUNDARY OF THE FILL AREA. IN GENERAL, THERE APPEARS TO BE THREE (3) AREAS OF ACTIVE SEEPAGE, AS EVIDENCED BY STAINING OF THE SOILS AND THE DISTINCTIVE LEACHATE ODER. THE FIRST OF THESE IS SITUATED IN THE EROSION GULLY, WHICH PARALLELS ROUTE 71. THE SECOND IS SITUATED APPROXIMATELY HALFWAY BETWEEN ROUTE 73 AND THE WOODLAWN WASHING PLANT. THE THIRD IS THE DEEP DITCH, WHICH WAS UTILIZED TO CARRY SILT LADEN WATER AWAY FROM THE WASHING PLANT. AS DISCUSSED, WE ARE IN AGREEMENT WITH YOUR OPINION, THAT THIS BEEPAGE IS PROBABLY MORE OF A PROBLEM FROM AN AESTHETIC POINT OF VIEW THAN AS A THREAT TO PIGEON RUN; PARTICULARLY IN LIGHT OF THE APPARENT SMALL VOLUMES BEING PRODUCED (THE LARGEST FLOW VOLUME OBSERVED, ON OUR VISIT OF DECEMBER 10, 1975, IS ESTIMATED TO BE LESS THAN FIVE (5) GALLONS PER MINUTE), HOWEVER, THE VOLUME AND AREAS OF BEEPAGE HAS INCREASED. THIS SHOULD BE CONSIDERED

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COMM. No.: 1233-47-2 MR. DAVID CLARK

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DECEMBER 17, 1975

AS THE EARLY STAGE OF A POTENTIAL PROBLEM. WE BELIEVE SOME ACTION AT THIS POINT IS REQUIRED TO ASSESS THIS POTENTIAL PROBLEM. ACCORDINGLY, WE PROPOSE TO LITHLIZE SOME OF THE FURID ALLOCATED FOR THE GROUNDWATER MONITORING STUDY TO EVALUATE THE QUALITY OF THE SURFACE WATERS RETWEEN ROUTE 71 AND U.S. 13. IN ORDER TO ACCOMPLISH THIS ADDITIONAL INVESTIGATION, WITHOUT INCREASING OUR FEE, THIS WILL NECESSITATE A CHANGE IN THE SCOPE OF DUR PRESENT WORK. TO ALLOW FOR THIS EVALUATION, WE SUGGEST THAT THE PRESENT PROGRAM BE SHORTENED TO TERMINATE IN JUNE RATHER THAN AUGUST. THIS WILL PERMIT US TO LITHLIZE THE AVAILABLE PURDS IN A MANNER WHICH MORE APPROPRIATELY REPLECTS THE EXISTING SITE CONDITIONS, IF THIS IS ACCEPTABLE WITH THE DEPARTMENT, PLEASE NOTIFY US, AS SOON AS POSSIBLE, SO THAT THE INVESTIGATION CAN BE INSTINCTED.

WE BELIEVE THAT IT WOULD BE BEHEFICIAL TO HAVE SOMEOUS LIGHTHE PUBLIC WORKS DEPT. FAMILIAR WITH THE SEEPAGE CONDITIONS. AS DISCUSSED, WE SUBSECT THAT YOU, OR SOMEOUS FROM YOUR SECTION, ACCOMPANY US ON OUR NEXT SITE RECOMMENDED. THIS WOULD PUT YOUR OFFICE IN A SETTER POSITION TO MANDLE COMPLAINTS, SHOULD THEY ARISE. THE HEXT RECOMMISSANCE AND WATER LEVEL, MONITORING IS, TENTATIVELY, SCHEDLED FOR THE SECOND OR THIRD WEEK IN JANUARY.

IF YOU HAVE ANY QUESTIONS REGARDING THE ABOVE, OR IF WE CAN BE OF FURTHER ASSISTANCE, PLEASE DO NOT HESITATE TO CONTACT US.

VERY TRULY YOURS,

EDWARD N. RICHARDSON ASSOCIATES, INC.

GLEISH K. ELLIOTT

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ENCLOSURES

CC: Mr. A. W. MADORA MR. J. F. DUFFIELD

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GROUNDWATER ELEVATION AT TYBOUTS CORNER LAND

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Монітой	10 7 74	1-23-75	3-5-75	9-17-35	11-5-75	12-10-75	
NUMBER	10-7-74	1-23-13					
P-1	37.4 FT.	37.4 FT.	37,6 FT.	38,9 FT.	40,0 FT.	39,2 FT,	
P-2	37.7 FT.		***				
P-3	30,2 FT.	31,0 FT.	31.2 FT.		31,0 FT.	31,0 FT.	
P-5	29,3 FT.	30.6 FT.	30,2 FT.	30.4 FT.	30.6 FT.	30.4 FT.	
P-7	38,6 FT.	38,6 FT.	38,6 FT.	40,8 FT.	39,9 FT.	40,2 FT.	
		38,7 FT.	38,6 FT.	40,8 FT.	40.5 FT.	40,3 FT.	
MP-1	38,7 FT.	36,7 FT.	35,3 FT.	36,2 FT.	36,1 FT.	36,3 FT.	
MP-2	35,7 FT.	33,3 FT.	33,2 FT.	33.5 FT.	33,7 FT.	33,5 FT.	
MP-3	32.0 FT.	33,5 FT.	33.2 FT.	33.4 FT.	33,7 FT.	33,3 FT.	
MP-3A	31,9 FT.	35,3 FT.	35.9 FT.	36,6 FT.	36,5 FT.	36,4 FT.	
MP-4	34,6 FT.	39,3 FI.	40,0711				
MP-5F	22,9 FT.	24.5 FT.	24.0 FT.	24.3 FT.	24,5 FT.	24.5 FT.	
P-5G	38.6 FT.	38,6 FT.	38,5 FT.	40.4 Tr	39.6 FT.	40.0 FT.	
MP-6	5.5 FT.	5,4 FT.	6,2 FT.	6.0	5,3 FT.	5,9 FT,	
MP-7	27,5 FT.	29.5 FT.	29.2 FT.	28,6	28,7 FT.	28.5 FT.	
MP-8	24,9 FT.	mm P1	25,3 FT.	25,1 FT.	25,0 FT.	24.3 FT.	
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MP-10	26.2 FT.	27.2 FT.	27.2 FT.	26.7 FT.	27.1 FT.	26,9 FT.	
MP-11	30.7 FT.	31.7 ೯୮.	31,9 FT.	31.5	31.9 FT.	31,7 FT.	
MP-12	36,1 FT.	37.0 FT.	36.7 FT.	37.5	37,3 FT.	37.1 FT.	
MP-13	24,2 FT.	26,8 FT.	24.8 FT.		24,5 FT.	24.9 FT.	
MP-14	29.3 FT.	30.6 FT.	30,1 FT.	29.9 FT.	30,4 FT.	30.2 FT.	
	10 F am	20.7 FT.	20,0 FT.	7			
MP-15	19.5 FT.	12.8 FT.	11,8 FT.		12,1 FT.	12,1 FT.	
MP-16	12.0 FT.	16.3 FT.	15,5 FT.	15.0	15, 1 FT.	14.9 FT.	
MP-17	15,2 FT.	27.4 FT.	26.2 FT.	27.0 TT.	27,1 FT.	26.7 FT.	
MP-18	24.3 FT.	32.8 FT.	32,5 FT.	33.0	33,3 FT.	33,2 FT.	
MP-18A	32,2 FT.	32,0 71,		, j		,	
MP-15	5.8 FT.	6,6 FT.	5.9 FT.		5,8 FT.	5,8 FT.	
MP-20	8,1 FT.	9.3 FT.	8.6 FT.		8.7 FT.	8.4 FT.	
MP-21	7.0 FT.	7,1 FT.	6.5 FT.	6,2 FT.	6,3 FT.	6.3 FT.	
MP-23	2,3 FT.	2.9 FT.	2.8 FT.	2.5 FT.	2,9 FT.	2,8 гт,	-
1P-24	3,3 FT.	3.5 FT.	3.3 FT.	3.2 FT.	3,4 FT ,	3.4 FT.	
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MP-27	34.8 FT.	36,0 FT.	36.8 FT.		37.2 FT.	36,1 FT.	
MP-28	4,6 FT.	5,2 FT.	4,5 FT.	4.5 FT.	4.8 FT.	4.5 FT.	
MP-29	16.5 FT.	16,8 FT.	16,6 FT.	16.7 ೯ፕ .	16.8 FT.	16.8 FT.	
Wb-30 Wh-sa	24.1 FT.	24,8 FT.	24,6 FT.	24.1	₹ 24.2 FT() 2	280≥72 -⊤.	
ML-20	89) I / I I		! :	M.	i,		